



DETASULTRA®
solutions around the cable

www.detasultra.com

ENG
Vers. 5.2





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Detas SpA presents the **DetasUltra** division, established in 2019 after many years experience in cable management for electrical cabinets and equipment.

The **DES (Detas Entry System)** solution is designed to simplify the use of cables in electrical equipment, improving watertightness, strain relief and EMC, whilst minimising costs.

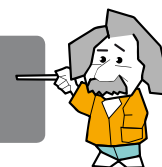
DES has been designed, developed and patented in Italy, thanks to our technical skills in the thermoplastic industry and production equipment.

Our attention to detail has driven us to develop innovative and reliable solutions for our customers at a competitive price.

For decades the Detas Group has been specialising in power electronics for sectors such as industrial automation, LED functional lighting, traffic safety and electric vehicle charging.



Easier with us!



Group 1

Entry system for pre-terminated cables





Splittable frame for pre-terminated cables

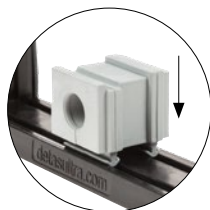


- Multiple possible configurations in one frame size
- Frame screws in AISI304 Stainless Steel
- Integrated gasket
- Strain relief according to EN 62444
- Sturdy construction IK10
- Up to IP66



The DES 24 cable entry system consists of a splittable frame designed to accommodate small (SPP), multiple (X) or large (SPG) inserts for cables in the same frame. Future cable size changes can be easily accommodated.

Thanks to the robust construction, the DES 24 is a long lasting product.



Technical data

Material: PP+GF

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +155°C (static)

Features: halogens and silicones free

Related products



Insert SPG



Insert SPP and SPP K



Insert SPP 2x



Insert SPP 4x



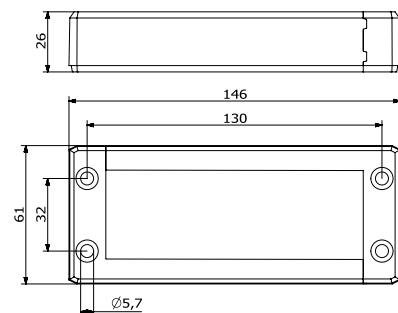
Flap frame

Hydraulic punch driver HY360



Model	Code	Some possible configurations	Pcs /pack
DES 24	1731010024		10
Upon request:	1731991020	Set of 4 mounting screws in AISI304 with Black Dacromet finishing	10

Dimensions [mm]



DES 24





Splittable frame for pre-terminated cables

- ▶ Multiple possible configurations in one frame size
- ▶ Frame screws in AISI304 Stainless Steel
- ▶ Integrated gasket
- ▶ Strain relief according to EN 62444
- ▶ Sturdy construction IK10
- ▶ Up to IP66



The DES 16 cable entry system consists of a splittable frame designed to accommodate small (SPP), multiple (X) or large (SPG) inserts for cables in the same frame. Future cable size changes can be easily accommodated.

Thanks to the robust construction, the DES 16 is a long lasting product.

Technical data

Material: PP+GF

Flammability: self-extinguishing acc. to UL94-V0

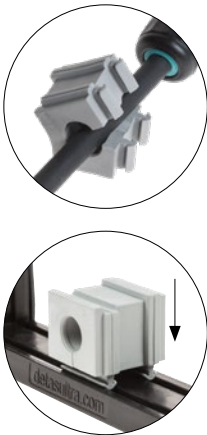
Temperature: -40°C... +155°C (static)

Features: halogens and silicones free

Related products

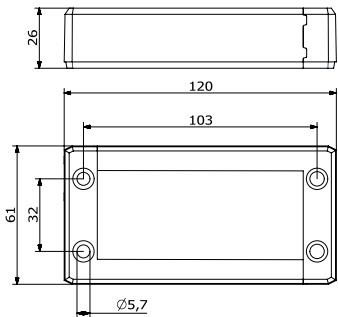
- Insert SPG
- Insert SPP and SPP K
- Insert SPP 2x
- Insert SPP 4x
- Flap frame

Hydraulic punch driver HY360



Model	Code	Some possible configurations	Pcs /pack
DES 16	1731010016		10
Upon request:	1731991020	Set of 4 mounting screws in AISI304 with Black Dacromet finishing	10

Dimensions [mm]



DES 16



Splittable frame for pre-terminated cables



- Multiple possible configurations in one frame size
- Frame screws in AISI304 Stainless Steel
- Integrated gasket
- Strain relief according to EN 62444
- Sturdy construction IK10
- Up to IP66



1

The DES 10 cable entry system consists of a splittable frame designed to accommodate small (SPP), multiple (X) or large (SPG) inserts for cables in the same frame. Future cable size changes can be easily accommodated.

Thanks to the robust construction, the DES 10 is a long lasting product.

Technical data

Material: PP+GF

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +155°C (static)

Features: halogens and silicones free

Related products



Insert SPG



Insert SPP and SPP K



Insert SPP 2x



Insert SPP 4x

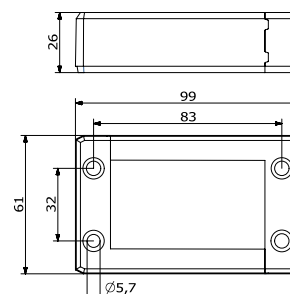


Flap frame

Hydraulic punch driver HY360

Model	Code	Some possible configurations	Pcs /pack
DES 10	1731010010		10
Upon request:	1731991020	Set of 4 mounting screws in AISI304 with Black Dacromet finishing	10

Dimensions [mm]



DES 10



Splittable frame for pre-terminated cables

- ▶ Multiple possible configurations in one frame size
- ▶ Frame screws in AISI304 Stainless Steel
- ▶ Integrated gasket
- ▶ Strain relief according to EN 62444
- ▶ Sturdy construction IK10
- ▶ Up to IP66



The DES Q cable entry system consists of a splittable frame designed to accommodate small (SPP), multiple (X) or large (SPG) inserts for cables in the same frame. Future cable size changes can be easily accommodated.

Thanks to the robust construction, the DES Q is a long lasting product.

Technical data

Material: PP+GF

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +155°C (static)

Features: halogens and silicones free

Related products



Insert SPG



Insert SPP and SPP K



Insert SPP 2x

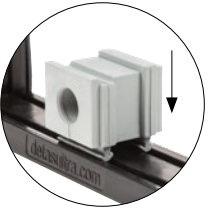


Insert SPP 4x



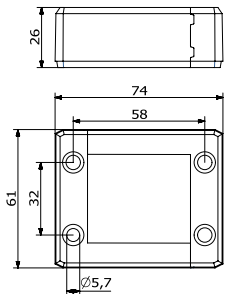
Flap frame

Hydraulic punch driver HY360



Model	Code	Some possible configurations	Pcs /pack
DES Q	1731010008		10
Upon request:	1731991020	Set of 4 mounting screws in AISI304 with Black Dacromet finishing	10

Dimensions [mm]



DES Q





Closing plates for DES series

- Fast installation
- Gasket included
- IP54



1

Thanks the DES COVER plates it is possible to protect unused openings avoiding contact with the outer environment.

Technical data

Material: PP+GF
Flammability: self-extinguishing acc. to UL94-V0
Temperature: -40°C... +155°C (static)
Features: halogens and silicones free

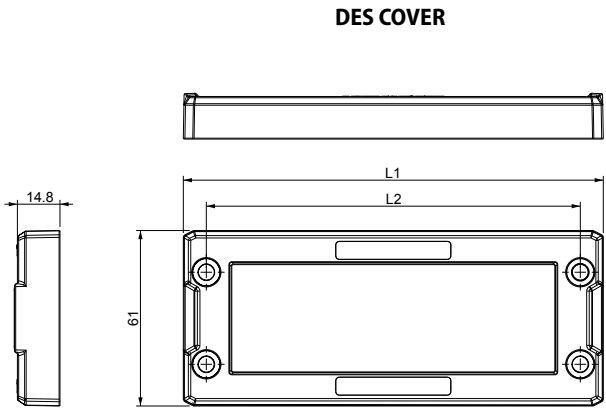
Related products

-  DES 24
-  DES 16
-  DES 10
-  DES Q

Model	Code	Dimensions [mm]		Pcs /pack
		L1	L2	
DES COVER 24	1731032024	146	130	10
DES COVER 16	1731032016	120	103	10
DES COVER 10	1731032010	99	83	10
DES COVER Q	1731032008	74	58	10

Upon request:	1731991020	Set of 4 mounting screws in AISI304 with Black Dacromet finishing	10
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Dimensions [mm]



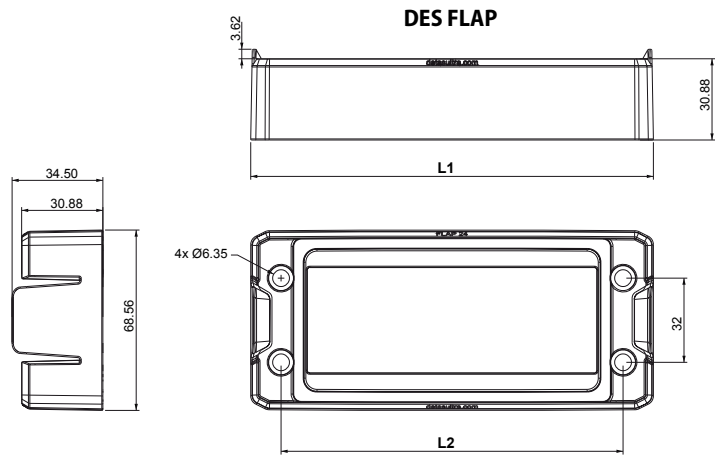




Model	Code	Dimensions [mm]		Pcs /pack
		L1	L2	
DES FLAP 24	1731031024	153	130	10
DES FLAP 16	1731031016	125	103	10
DES FLAP 10	1731031010	103	83	10
DES FLAP Q	1731031008	69	58	10

Upon request:	1731991020	Set of 4 mounting screws in AISI304 with Black Dacromet finishing	10
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Dimensions [mm]



Fast fixing solution for DES splittable frames

- Fast installation for the DES Series
- Gasket included
- IP54



The DES FLAP solution enables the DES 24, 16, 10 and Q frames to be installed with a quick push connection.

The FLAP frame, once installed, hooks over the split frame and is the best solution for a flexible installation. Enclosures can be later accessed quickly and easily.

The DES splittable frame does not need to be dismantled.

Technical data

Material: PP+GF

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +155°C (static)

Features: halogens and silicones free

Related products

- DES 24
- DES 16
- DES 10
- DES Q





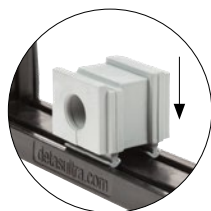
Splittable frame for pre-terminated cables



- ▶ Multiple possible configurations in one frame size
- ▶ A small number of cables can be easily accommodated.
- ▶ Frame screws in AISI304 Stainless Steel
- ▶ Integrated gasket
- ▶ Strain relief according to EN 62444
- ▶ Sturdy construction IK10
- ▶ Up to IP66



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The DES L2 and L3 splittable frames enable pre-terminated cables from 2 to 16mm in diameter to pass through enclosure walls, providing strong strain relief and water protection.

Technical data

Material: PP+GF

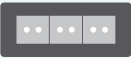
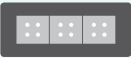
Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +155°C (static)

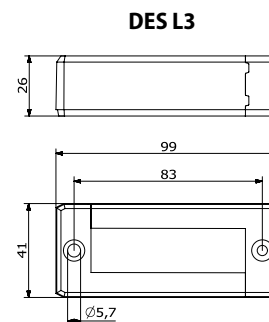
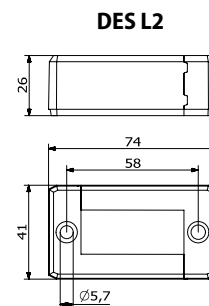
Features: halogens and silicones free

Related products

- ◻ Insert SPP and SPP K
- ◻◻ Insert SPP 2x
- ◻◻◻ Insert SPP 4x

Model	Code	Some possible configurations	Pcs /pack
DES L2	1731010002	  	10
DES L3	1731010003	  	10
Upon request:	1731991010	Set of 2 mounting screws in AISI304 with Black Dacromet finishing	10

Dimensions [mm]





Splittable frame for pre-terminated cables

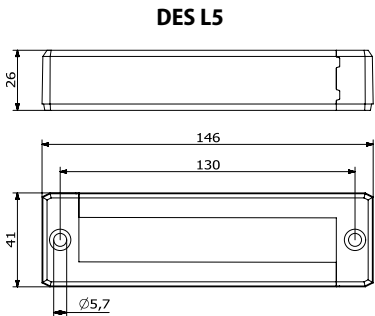
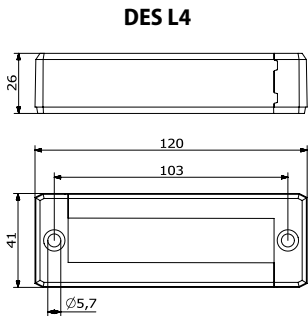
- ▶ Multiple possible configurations in one frame size
- ▶ Frame screws in AISI304 Stainless Steel
- ▶ Integrated gasket
- ▶ Strain relief according to EN 62444
- ▶ Sturdy construction IK10
- ▶ Up to IP66



1

Model	Code	Some possible configurations	Pcs /pack
DES L4	1731010004		10
DES L5	1731010005		10
Upon request:	1731991010	Set of 2 mounting screws in AISI304 with Black Dacromet finishing	10

Dimensions [mm]



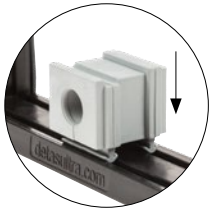
The DES L4 and L5 splittable frames enable pre-terminated cables from 2 to 16mm in diameter to pass through enclosure walls, providing strong strain relief and water protection.

Technical data

- Material:** PP+GF
- Flammability:** self-extinguishing acc. to UL94-V0
- Temperature:** -40°C... +155°C (static)
- Features:** halogens and silicones free

Related products

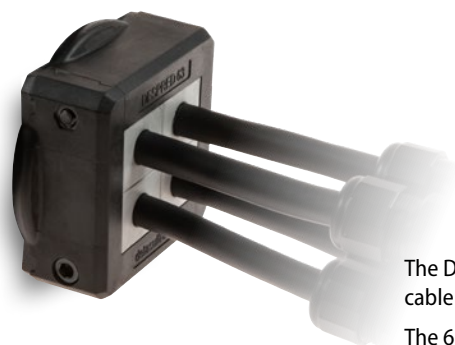
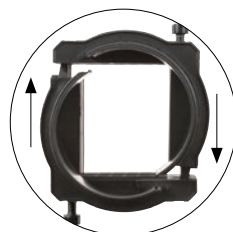
- Insert SPP and SPP K
- Insert SPP 2x
- Insert SPP 4x





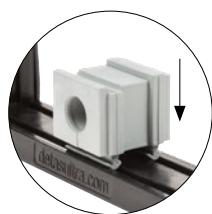
Splittable cable gland with locknut

- Patented cable entry system
- Frame screws in AISI304 Stainless Steel with Black Dacromet finishing
- Up to IP66
- Strain relief according to EN 62444
- Sturdy construction IK10



The DESPRED series are splittable cable glands for metric threads.

The 63 model can be used with small, multiple and large inserts for cables from 2 to 34mm in diameter. With multiple inserts it is possible to accommodate up to 16 cables. Future cable size changes can also be easily accommodated using various inserts.



Technical data

Material: PP+GF

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +155°C (static)

Features: halogens and silicones free

Related products



Insert SPG



Insert SPP and SPP K



Insert SPP 2x



Insert SPP 4x

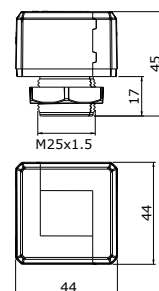
Hydraulic punch driver HY360

Model	Code	Some possible configurations	Pcs /pack
DESPRED 25	1731050025		10
DESPRED 32	1731050032		
DESPRED 63	1731050063		10

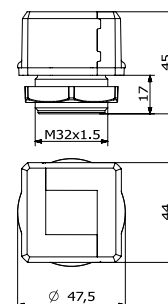
Upon request: DDM SUB-D9	1731052032	Special size M32 for SUB-D9	10

Dimensions [mm]

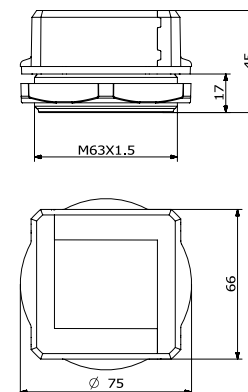
DESPRED 25



DESPRED 32



DESPRED 63





Splittable cable gland and locknut with 90° entry

- ▶ 90° cable entry system
- ▶ Fixing without screws
- ▶ Strain relief according to EN 62444
- ▶ IP54
- ▶ Sturdy construction IK10

The DESPRED 50-90 is a splittable gland for the 50 metric thread with a 90 degree entry. It can be used with small, multiple and large inserts for cables 2 to 16mm in diameter. With multiple inserts it is possible to accommodate up to 16 cables.

Future cable size changes can also be easily accommodated using various inserts..

Technical data

Material: PA

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +155°C (static)

Features: halogens and silicones free

Related products

- Insert SPP and SPP K
- Insert SPP 2x
- Insert SPP 4x

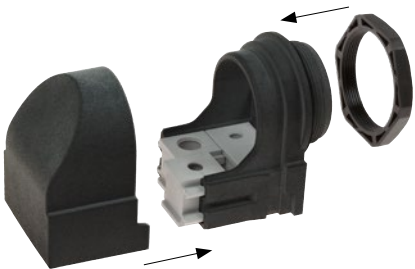
Hydraulic punch driver HY360



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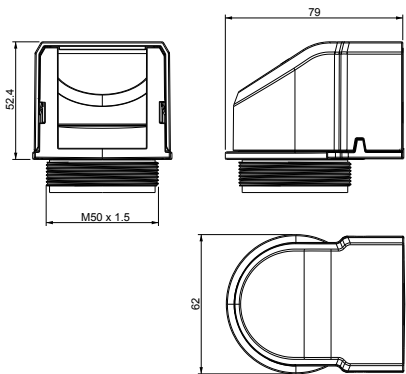


Model	Code	Some possible configurations	Pcs /pack
DESPRED 50-90	1731050250	 	10



Dimensions [mm]

DESPRED 50-90





DES inserts - small: single, double and quadruple



- Inserts for cables from 2 to 16 mm in diameter
- "Blind" version available
- Grey and black colours available
- UL94V0 for both colours

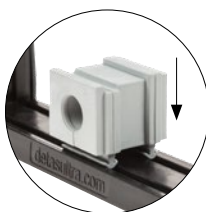
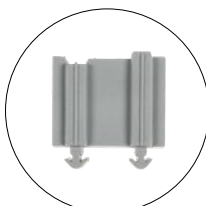


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The SPP inserts enable several cables from 2 to 16mm in diameter to be installed in the DES splittable frame.

The 2X and 4X versions enable multiple cables to be installed.



Technical data

Material: TPE

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +110°C (static)

Features: halogens and silicones free

Related products

DES 24	DES L5	DESPRED
DES 16	DES L4	DESPRED 90
DES 10	DES L3	
DES Q	DES L2	

Model GREY	Code	Ø Cable [mm]	Model BLACK	Code	Pcs /pack
SPP 0G	1731020100	"blind"	SPP 0B	1731020200	10
SPP 2G	1731020102	2-3	SPP 2B	1731020202	
SPP 3G	1731020103	3-4	SPP 3B	1731020203	
SPP 4G	1731020104	4-5	SPP 4B	1731020204	
SPP 5G	1731020105	5-6	SPP 5B	1731020205	
SPP 6G	1731020106	6-7	SPP 6B	1731020206	
SPP 7G	1731020107	7-8	SPP 7B	1731020207	
SPP 8G	1731020108	8-9	SPP 8B	1731020208	
SPP 9G	1731020109	9-10	SPP 9B	1731020209	
SPP 10G	1731020110	10-11	SPP 10B	1731020210	
SPP 11G	1731020111	11-12	SPP 11B	1731020211	
SPP 12G	1731020112	12-13	SPP 12B	1731020212	
SPP 13G	1731020113	13-14	SPP 13B	1731020213	
SPP 14G	1731020114	14-15	SPP 14B	1731020214	
SPP 15G	1731020115	15-16	SPP 15B	1731020215	
SPP 16G	1731020116	16-17	SPP 16B	1731020216	
SPP 2x2G	1731020304	2 x 2	SPP 2x2B	1731020404	10
SPP 2X3G	1731020306	2 x 3	SPP 2X3B	1731020406	
SPP 2X4G	1731020308	2 x 4	SPP 2X4B	1731020408	
SPP 2X5G	1731020310	2 x 5	SPP 2X5B	1731020410	
SPP 2X6G	1731020312	2 x 6	SPP 2X6B	1731020412	
SPP 2X7G	1731020314	2 x 7	SPP 2X7B	1731020414	
SPP 2X8G	1731020316	2 x 8	SPP 2X8B	1731020416	
SPP 4X2G	1731020318	4 x 2	SPP 4X2B	1731020418	10
SPP 4X3G	1731020320	4 x 3	SPP 4X3B	1731020420	
SPP 4X4G	1731020322	4 x 4	SPP 4X4B	1731020422	
SPP 4X5G	1731020324	4 x 5	SPP 4X5B	1731020424	
SPP 4X6G	1731020326	4 x 6	SPP 4X6B	1731020426	





DES inserts with extended range
- non split

- ▶ Extended range inserts for non-terminated cables
- ▶ Diameters from 2.5 to 14 mm
- ▶ "Blind" insert pierceable available
- ▶ Grey and black colours available
- ▶ UL94V0 for both colours



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Model GREY	Code	Ø Cable min/max [mm]	Model BLACK	Code	Pcs /pack
SPP K0G	1731021100	"blind"	SPP K0B	1731023100	10
SPP K1G	1731021110	2.5/7	SPP K1B	1731023110	
SPP K2G	1731021115	5/10	SPP K2B	1731023115	
SPP K3G	1731021120	7.5/11.5	SPP K3B	1731023120	
SPP K4G	1731021125	10/14	SPP K4B	1731023125	

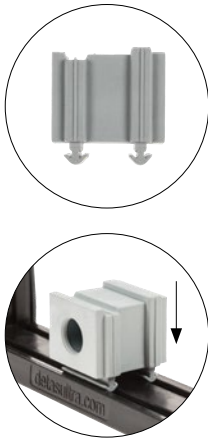
The SPP K inserts enable non-terminated cables to be accommodated in the DES splittable frames. Each insert has an extended range. The "blind" insert, properly pierced, enables cables from 1 to 16mm in diameter to pass through the frame.

Technical data

- Material:** TPE
- Flammability:** self-extinguishing acc. to UL94-V0
- Temperature:** -40°C... +110°C (static)
- Features:** halogens and silicones free

Related products

- | | | |
|--------|--------|------------|
| DES 24 | DES L5 | DESPRED |
| DES 16 | DES L4 | DESPRED 90 |
| DES 10 | DES L3 | |
| DES Q | DES L2 | |





DES insert - large

- Inserts for cables from 17 to 34 mm in diameter
- "Blind" version available
- Grey and black colours available
- UL94V0 for both colours



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The SPG inserts enable several cables from 17 to 34mm in diameter to be installed in the DES splittable frames.

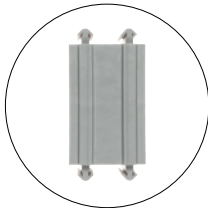
Technical data

Material: TPE

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +110°C (static)

Features: halogens and silicones free



Related products

DES 24 DESPRED

DES 16

DES 10

DES Q

Model GREY	Code	Ø Cable [mm]	Model BLACK	Code	Pcs /pack
SPG 0G	1731022000	"blind"	SPG 0B	1731022020	
SPG 17G	1731022117	17	SPG 17B	1731022217	
SPG 18G	1731022118	18	SPG 18B	1731022218	
SPG 19G	1731022119	19	SPG 19B	1731022219	
SPG 20G	1731022120	20	SPG 20B	1731022220	
SPG 21G	1731022121	21	SPG 21B	1731022221	
SPG 22G	1731022122	22	SPG 22B	1731022222	
SPG 23G	1731022123	23	SPG 23B	1731022223	
SPG 24G	1731022124	24	SPG 24B	1731022224	
SPG 25G	1731022125	25	SPG 25B	1731022225	10
SPG 26G	1731022126	26	SPG 26B	1731022226	
SPG 27G	1731022127	27	SPG 27B	1731022227	
SPG 28G	1731022128	28	SPG 28B	1731022228	
SPG 29G	1731022129	29	SPG 29B	1731022229	
SPG 30G	1731022130	30	SPG 30B	1731022230	
SPG 31G	1731022131	31	SPG 31B	1731022231	
SPG 32G	1731022132	32	SPG32B	1731022232	
SPG 33G	1731022133	33	SPG33B	1731022233	
SPG 34G	1731022134	34	SPG34B	1731022234	

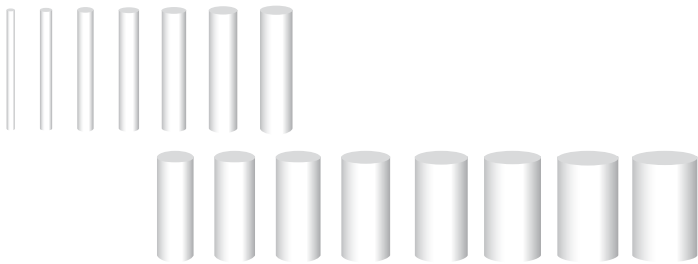




Model	Code	Ø Diameter [mm]	Length [mm]	Pcs /pack
ISP 2	1731040002	2	30	20
ISP 3	1731040003	3	30	
ISP 4	1731040004	4	30	
ISP 5	1731040005	5	30	
ISP 6	1731040006	6	30	
ISP 7	1731040007	7	30	
ISP 8	1731040008	8	25	
ISP 9	1731040009	9	25	
ISP 10	1731040010	10	25	
ISP 11	1731040011	11	25	
ISP 12	1731040012	12	25	
ISP 13	1731040013	13	25	
ISP 14	1731040014	14	25	
ISP 15	1731040015	15	25	
ISP 16	1731040016	16	25	

Plugs for SPP series

► Plastic plugs for SPP inserts, from 2 to 16 mm in diameter



1

The ISP plugs fit perfectly into the SPP insert hole restoring the water protection property of the DES splittable frames. These range from 2 to 16mm in diameter.

Technical data

- Material:** PC+GF
- Flammability:** self-extinguishing acc. to UL94-V0
- Temperature:** -40°C... +155°C (static)
- Features:** halogens and silicones free

Related products

- DES 24 DES L5 DESPRED
- DES 16 DES L4 DESPRED 90
- DES 10 DES L3
- DES Q DES L2





Cable frame with brush

- ▶ Brush frame for pre and non-terminated cables
- ▶ Tidy and cost effective solution
- ▶ Available in three sizes (24, 16 and 10)



1

The DES Z series enables multiple cables and connector sizes to be accommodated.

Effective protection against dust and debris.

Technical data

Material: PP+GF

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +155°C (static)

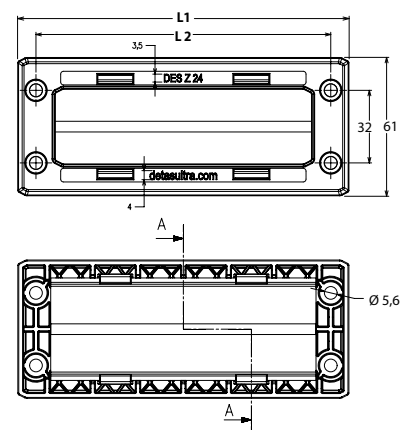
Features: halogens and silicones free

Prodotti correlati

Hydraulic punch driver HY360

Model	Code	Dimensions [mm]		Pcs /pack
		L1	L 2	
DES Z 24	1731060024	146	130	10
DES Z 16	1731060016	120	103	
DES Z 10	1731060010	99	83	
Upon request:	1731991020	Set of 4 mounting screws in AISI304 with Black Dacromet finishing		10

Dimensions [mm]



DES Z

SECTION A-A

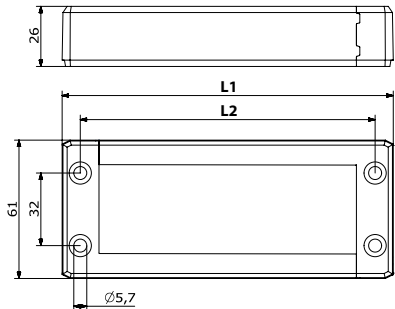




Model	Code	Dimensions [mm]		Pcs /pack
		L1	L2	
DES ZZ 24	1731060224	146	130	10
DES ZZ 16	1731060216	120	103	
DES ZZ 10	1731060210	99	83	
DES ZZ Q	1731060208	74	58	
DES ZZ L5	1731060205	146	130	
DES ZZ L4	1731060204	120	103	
DES ZZ L3	1731060203	99	83	
DES ZZ L2	1731060202	74	58	

Upon request:	1731991020	Set of 4 mounting screws in AISI304 with Black Dacromet finishing	10
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Dimensions [mm]



DES ZZ

Splittable frame with double brush

- ▶ Brush frame for pre and non-terminated cables
- ▶ Double frame offering increased dust protection
- ▶ 8 different models (24, 16, 10, Q, L5, L4, L3 and L2)



1

The DES ZZ is a splittable frame with 2 rows of brushes providing increased protection against dust and debris. Multiple cables and connector sizes can be accommodated.



Technical data

- Material:** PP+GF
- Flammability:** self-extinguishing acc. to UL94-V0
- Temperature:** -40°C... +155°C (static)
- Features:** halogens and silicones free

Prodotti correlati

- Flap frame
- Hydraulic punch driver HY360





Splittable frame and locknut with double brush

- ▶ Double brush frame for pre and non-terminated cables
- ▶ Frame screws in AISI304 Stainless Steel with Black Dacromet finishing
- ▶ Metric threads M32 and M63



1



DESPRED ZZ consists of a square frame with two rows of brushes. Excellent protection is offered against dust and debris.

Technical data

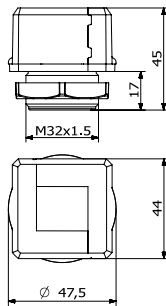
Material: PP+GF
Flammability: self-extinguishing acc. to UL94-V0
Temperature: -40°C... +155°C (static)
Features: halogens and silicones free



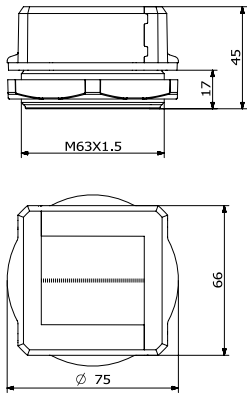
Model	Code	Metric thread	Pcs /pack
DESPRED ZZ 32	1731060232	M32 x 1.5	10
DESPRED ZZ 63	1731060263	M63 x 1.5	10

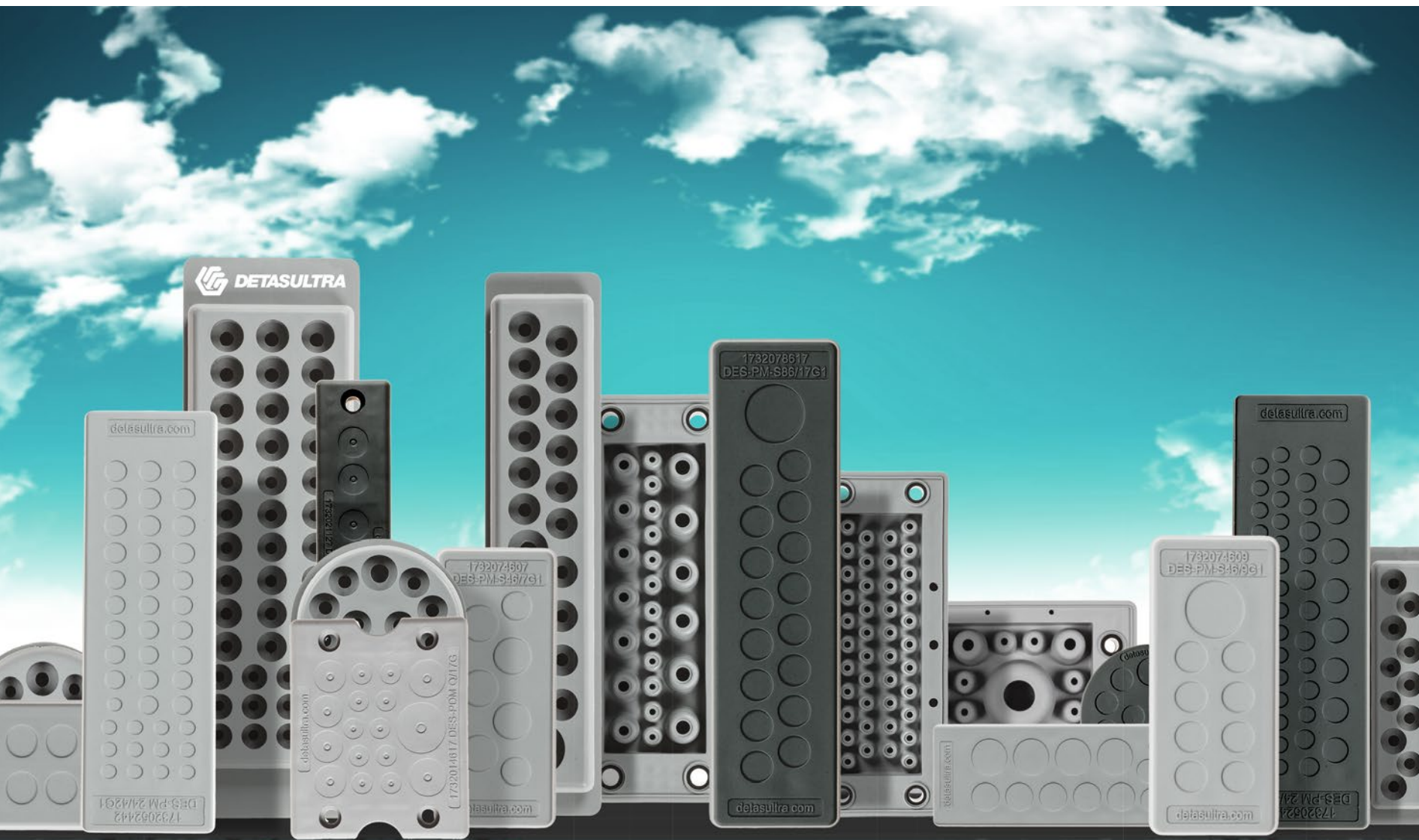
Dimensions [mm]

DESPRED ZZ 32



DESPRED ZZ 63





Group 2

Entry system for non-terminated cables



Cable entry plates for non-terminated cables

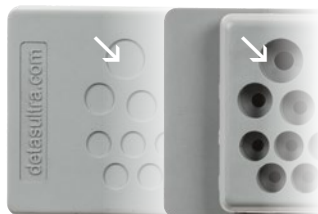


- For high number of cables
- High retaining force thanks to the double membrane
- Cost efficient solution
- High IP grade (IP65-66)



2

Double membrane



The DES-PM 24 is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance.

Technical data

Material: TPE

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +105°C (static)

Features: halogens and silicones free

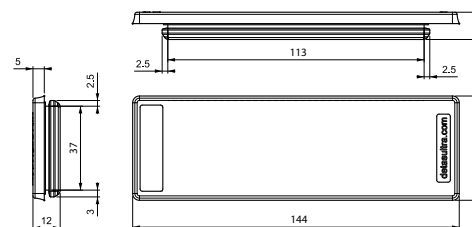
Wall thickness: from 1.5 to 2.5 mm

Related products

Hydraulic punch driver HY360

GREY					
Model	Code	Cable nr. - Ø cables [mm]	Dimensions [mm]		Pcs /pack
			Cut-out	Plate	
DES-PM 24 12G	1732052412	12 - max. 15	112 x 36 max. +0.5	144 x 46	10
DES-PM 24 14G	1732052414	14 - max. 12.1			
DES-PM 24 17G	1732052417	5 - max. 10.5 12 - max. 12.6			
DES-PM 24 18G	1732052418	4 - max. 6.5 5 - max. 10.5 5 - max. 12.6 4 - max. 16.1			
DES-PM 24 20G	1732052420	13 - max. 6.5 7 - max. 12.1			
DES-PM 24 26G	1732052426	16 - max. 6.5 4 - max. 12.1 4 - max. 16.1 2 - cavo ASI			
DES-PM 24 42G	1732052442	1 - max. 4.7 12 - max. 5 17 - max. 6.4 12 - max. 7.2			
DES-PM 24 48G	1732052448	48 - max. 6.5			
DES-PM 24 50G	1732052450	33 - max. 5.3 9 - max. 6.4 8 - max. 8.3			

Dimensions [mm]





Cable entry plates for non-terminated cables

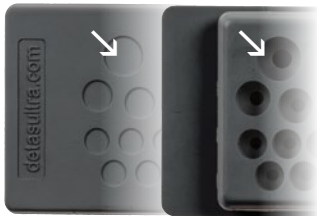
- ▶ For high number of cables
- ▶ High retaining force thanks to the double membrane
- ▶ Cost efficient solution
- ▶ High IP grade (IP65-66)



The DES-PM 24 is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance.

Double membrane



Technical data

Material: TPE

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +105°C (static)

Features: halogens and silicones free

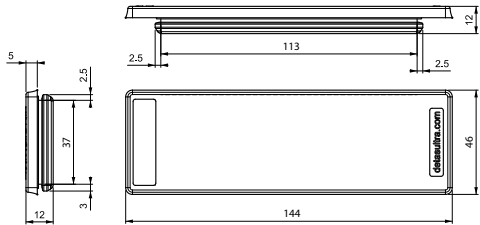
Wall thickness: from 1.5 to 2.5 mm

Related products

Hydraulic punch driver HY360

BLACK					
Model	Code	Cable nr. - Ø cables [mm]	Dimensions [mm]		Pcs /pack
			Cut-out	Plate	
DES-PM 24 12B	1732053413	12 - max. 15	112 x 36 max. +0.5	144 x 46	10
DES-PM 24 14B	1732053415	14 - max. 12.1			
DES-PM 24 17B	1732053418	5 - max. 10.5 12 - max. 12.6			
DES-PM 24 18B	1732053419	4 - max. 6.5 5 - max. 10.5 5 - max. 12.6 4 - max. 16.1			
DES-PM 24 20B	1732053421	13 - max. 6.5 7 - max. 12.1			
DES-PM 24 26B	1732053427	16 - max. 6.5 4 - max. 12.1 4 - max. 16.1 2 - cavo ASI			
DES-PM 24 42B	1732053443	1 - max. 4.7 12 - max. 5 17 - max. 6.4 12 - max. 7.2			
DES-PM 24 48B	1732053449	48 - max. 6.5			
DES-PM 24 50B	1732053451	33 - max. 5.3 9 - max. 6.4 8 - max. 8.3			

Dimensions [mm]



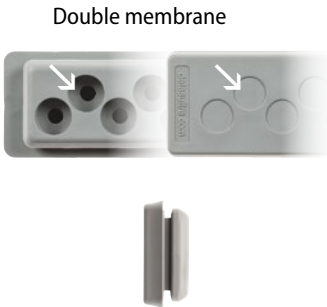


Cable entry plates for non-terminated cables

- For several number of cables in a limited space
- High retaining force thanks to the double membrane
- Cost efficient solution
- High IP grade (IP65-66)



2



The DES-PM S is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

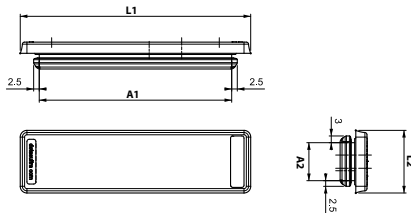
The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance.

Technical data

- Material:** TPE
- Flammability:** self-extinguishing acc. to UL94-V0
- Temperature:** -40°C... +105°C (static)
- Features:** halogens and silicones free
- Wall thickness:** from 1.5 to 2.5 mm

GREY					
Model	Code	Cable nr. - Ø cables [mm]	Dimensions [mm]		Pcs /pack
			Cut-out A1xA2	Plate L1xL2	
DES-PM S 46 7G	1732074607	2 - max. 6.5 5 - max. 8.3	46 x 18 max. +0.5	64 x 28	10
DES-PM S 46 9G	1732074609	8 - max. 6.5 1 - max. 12.1			
DES-PM S 86 11G	1732078611	2 - max. 6.5 9 - max. 8.35	85 x 16 max. +0.5	103 x 28	10
DES-PM S 86 17G	1732078617	16 - max. 6.5 1 - max. 12.1			
DES-PM S 112 21G	1732071221	16 - max. 6.5 4 - max. 8.3 1 - max. 12.1	112 x 18 max. +0.5	130 x 28	10

Dimensions [mm]





Cable entry plates for non-terminated cables

- ▶ For several number of cables in a limited space
- ▶ High retaining force thanks to the double membrane
- ▶ Cost efficient solution
- ▶ High IP grade (IP65-66)

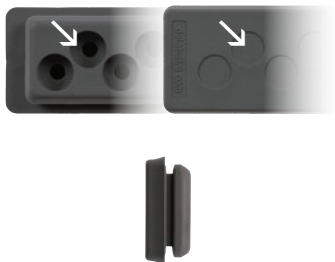


2

The DES-PM S is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance.

Double membrane



Technical data

Material: TPE

Flammability: self-extinguishing
acc. to UL94-V0

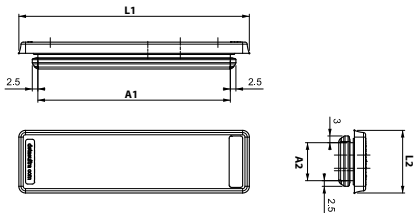
Temperature: -40°C... +105°C
(static)

Features: halogens and silicones
free

Wall thickness: from 1.5 to 2.5 mm

BLACK					
Model	Code	Cable nr.	Dimensions [mm]		Pcs /pack
		- Ø cables [mm]	Cut-out A1xA2	Plate L1xL2	
DES-PM-S 46 7B	1732074608	2 - max. 6.5 5 - max. 8.3	46 x 18 max. +0.5	64 x 28	10
DES-PM-S 46 9B	1732074610	8 - max. 6.5 1 - max. 12.1			
DES-PM-S 86 11B	1732078612	2 - max. 6.5 9 - max. 8.35	85 x 16 max. +0.5	103 x 28	10
DES-PM-S 86 17B	1732078618	16 - max. 6.5 1 - max. 12.1			
DES-PM-S 112 21B	1732071222	16 - max. 6.5 4 - max. 8.3 1 - max. 12.1	112 x 18 max. +0.5	130 x 28	10

Dimensions [mm]





Round cable entry plates for non-terminated cables

- For several number of cables
- High retaining force thanks to the double membrane
- Cost efficient solution
- High IP grade (IP65-66)
- Metric sized



2

The round metric DES-PM M is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance.

Double membrane



Type 1 Type 2

Technical data

Material: TPE

Flammability: self-extinguishing
acc. to UL94-V0

Temperature: -40°C... +105°C
(static)

Features: halogens and silicones
free

Type 1: wall thickness from 1.5 to
2.5 mm

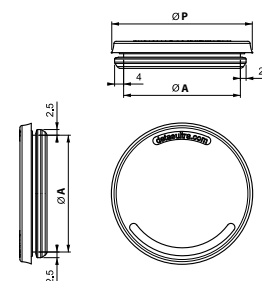
Type 2: wall thickness from 2.8 to
4 mm

Related products

Hydraulic punch driver HY360

GREY					
Model	Code	Cable nr. - Ø cables [mm]	Dimensions [mm]		Pcs /pack
			Ø Cut-out	Ø Plate	
DES-PM M 25 4G	type 1: 1732062504	4 - max. 8	min.: 25 max.: 26 recomm.: 25.5	34	10
DES-PM M 25 6G	type 1: 1732062506	4 - max. 5.2 2 - max. 9.4			
DES-PM M 32 10G	type 1: 1732063210 tipo 2: 1732263210	6 - max. 5.2 2 - max. 6.4 2 - max. 9.4	min.: 32 max.: 33 recomm.: 32.5	40	10
DES-PM M 50 9G	type 1: 1732065009	5 - max. 7 4 - max. 18.3			
DES-PM M 50 11G	type 1: 1732065011	7 - max. 7 3 - max. 11.4 1 - max. 22		62	10
DES-PM M 50 12G	type 1: 1732065012 type 2: 1732265012	10 - max. 9 2 - max. 11.4	min.: 50 max.: 51 recomm.: 50.5		
DES-PM M 50 15G	type 1: 1732065015	2 - max. 6 4 - max. 7.2 4 - max. 9.7 5 - max. 12			
DES-PM M 50 17G	type 1: 1732065017	5 - max. 5.5 5 - max. 6.5 3 - max. 9.7 4 - max. 11.4			
DES-PM M 50 20G	type 1: 1732065020	16 - max. 6.5 4 - max. 9.7			

Dimensions [mm]



UV ISO 4892-2A	RoHS COMPLIANT	CAD	CE US pending	up to IP66	up to NEMA 4x	TPE	UL94-V0	-40 +105 °C
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Round cable entry plates
for non-terminated cables

- For several number of cables
- High retaining force thanks to the double membrane
- Cost efficient solution
- High IP grade (IP65-66)
- Metric sized



The round metric DES-PM M is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance.

Technical data

Material: TPE

Flammability: self-extinguishing
acc. to UL94-V0

Temperature: -40°C... +105°C
(static)

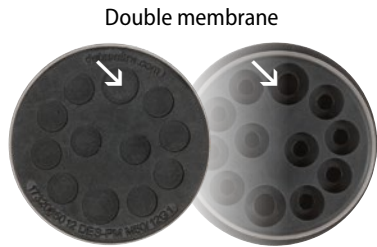
Features: halogens and silicones
free

Type 1: wall thickness from 1.5 to
2.5 mm

Type 2: wall thickness from 2.8 to
4 mm

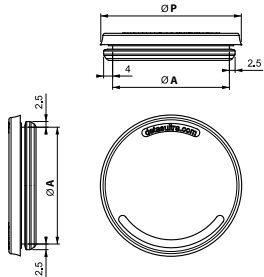
Related products

Hydraulic punch driver HY360



BLACK					
Model	Code	Cable nr. - Ø cables [mm]	Dimensions [mm]		Pcs /pack
			Ø Cut-out	Ø Plate	
DES-PM M 25 4B	type 1: 1732063505	4 - max. 8	min.: 25 max.: 26 recomm.: 25.5	34	10
DES-PM M 25 6B	type 1: 1732063507	4 - max. 5.2 2 - max. 9.4			
DES-PM M 32 10B	type 1: 1732064211 type 2: 1732264211	6 - max. 5.2 2 - max. 6.4 2 - max. 9.4	min.: 32 max.: 33 recomm.: 32.5	40	10
DES-PM M 50 9B	type 1: 1732066010	5 - max. 7 4 - max. 18.3			
DES-PM M 50 11B	type 1: 1732066012	7 - max. 7 3 - max. 11.4 1 - max. 22			
DES-PM M 50 12B	type 1: 1732066013 type 2: 1732266013	10 - max. 9 2 - max. 11.4			
DES-PM M 50 15B	type 1: 1732066016	2 - max. 6 4 - max. 7.2 4 - max. 9.7 5 - max. 12	min.: 50 max.: 51 recomm.: 50.5	62	10
DES-PM M 50 17B	type 1: 1732066018	5 - max. 5.5 5 - max. 6.5 3 - max. 9.7 4 - max. 11.4			
DES-PM M 50 20B	type 1: 1732066021	16 - max. 6.5 4 - max. 9.7			

Dimensions [mm]



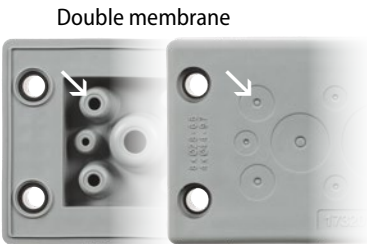


Cable entry plates with internal frame

- For high number of non-terminated cables
- High retaining force thanks to the double membrane
- Cost efficient solution
- High IP grade (IP65-66)



2



Double membrane

The DES-PDM 24 is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance.

Technical data

Material: TPE

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +105°C (static)

Features: halogens and silicones free

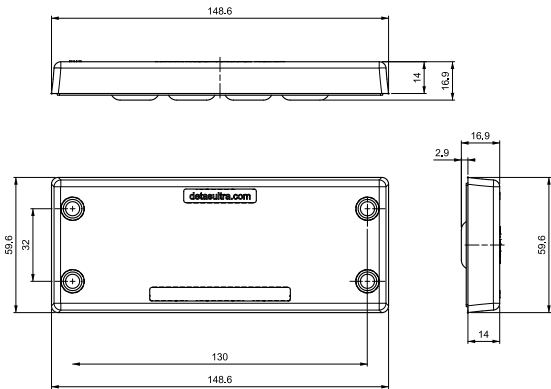
Related products

Hydraulic punch driver HY360

GREY					
Model	Code	Cable nr.	Dimensions [mm]		Pcs
		- Ø cables min/max [mm]	Cut-out	Plate	/pack
DES-PDM 24 14G	1732012414	10 - 2.8 / 6.5 4 - 14.5 / 22	112 x 36	148.6 x 59.6	10
DES-PDM 24 15G	1732012415	15 - 6.8 / 12			
DES-PDM 24 16G	1732012416	8 - 2.8 / 6.5 4 - 4.4 / 9.7 2 - 8.6 / 16.2 2 - 14.5 / 22			
DES-PDM 24 17G	1732012417	6 - 2.8 / 6.5 6 - 4.6 / 10.2 5 - 8.6 / 16.2			
DES-PDM 24 25G	1732012425	12 - 2.8 / 6.5 7 - 4.4 / 9.7 6 - 6.8 / 12			
DES-PDM 24 32G	1732012432	21 - 2.8 / 6.5 8 - 4.6 / 10.2 3 - 6.8 / 12			
DES-PDM 24 42G	1732012442	42 - 2.8 / 6.5			

Upon request:	1731991020	Set of 4 mounting screws in AISI304 with Black Dacromet finishing	10
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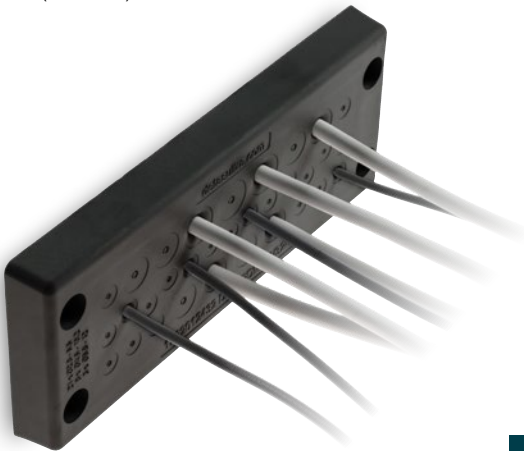
Dimensions [mm]





Cable entry plates with internal frame

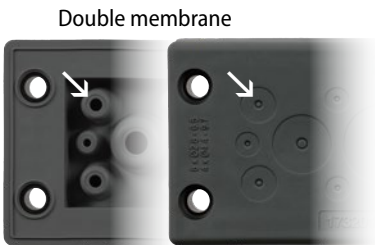
- For high number of non-terminated cables
- High retaining force thanks to the double membrane
- Cost efficient solution
- High IP grade (IP65-66)



2

The DES-PDM 24 is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance.



Technical data

- Material:** TPE
- Flammability:** self-extinguishing acc. to UL94-V0
- Temperature:** -40°C... +105°C (static)
- Features:** halogens and silicones free

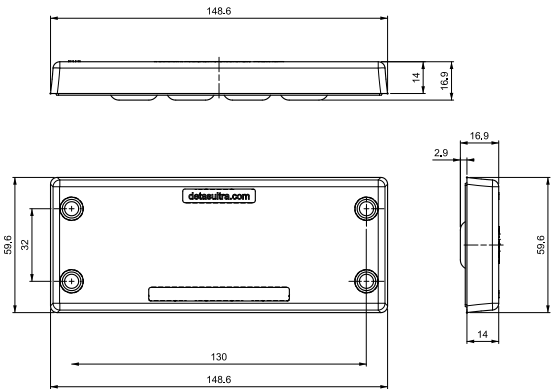
Related products

Hydraulic punch driver HY360

BLACK					
Model	Code	Cable nr.	Dimensions [mm]		Pcs
		- Ø cables min/max [mm]	Cut-out	Plate	/pack
DES-PDM 24 14B	1732013415	10 - 2.8 / 6.5 4 - 14.5 / 22	112 x 36	148.6 x 59.6	10
DES-PDM 24 15B	1732013416	15 - 6.8 / 12			
DES-PDM 24 16B	1732013417	8 - 2.8 / 6.5 4 - 4.4 / 9.7 2 - 8.6 / 16.2 2 - 14.5 / 22			
DES-PDM 24 17B	1732013418	6 - 2.8 / 6.5 6 - 4.6 / 10.2 5 - 8.6 / 16.2			
DES-PDM 24 25B	1732013426	12 - 2.8 / 6.5 7 - 4.4 / 9.7 6 - 6.8 / 12			
DES-PDM 24 32B	1732013433	21 - 2.8 / 6.5 8 - 4.6 / 10.2 3 - 6.8 / 12			
DES-PDM 24 42B	1732013443	42 - 2.8 / 6.5			

Upon request:	1731991020	Set of 4 mounting screws in AISI304 with Black Dacromet finishing	10
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Dimensions [mm]





Cable entry plates with internal frame

- For several number of non-terminated cables in a limited space
- High retaining force thanks to the double membrane
- Cost efficient solution
- High IP grade (IP65-66)



Model	Code	Cable nr. - Ø cables min/max [mm]	Dimensions [mm]		Pcs /pack
			Cut-out	Plate	
DES-PDM S 112 7G	1732021127	7 - 6.8 / 12	112x18	150x32	10
DES-PDM S 112 7B	1732022127	7 - 6.8 / 12	112x18	150x32	10

Upon request:	1731991010	Set of 2 mounting screws in AISI304 with Black Dacromet finishing			10
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2

Double membrane



The DES-PDM S is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance

Technical data

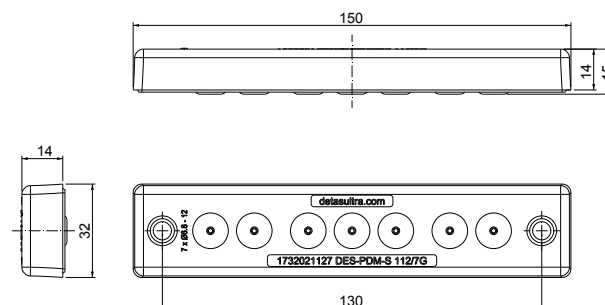
Material: TPE

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +105°C (static)

Features: halogens and silicones free

Dimensions [mm]





Cable entry plates with internal frame

- ▶ For several number of non-terminated cables in a limited space
- ▶ High retaining force thanks to the double membrane
- ▶ Cost efficient solution
- ▶ High IP grade (IP65-66)



The DES-PDM Q is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance.

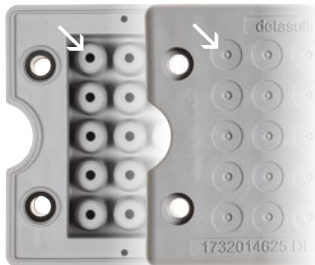
Technical data

- Material:** TPE
- Flammability:** self-extinguishing acc. to UL94-V0
- Temperature:** -40°C... +105°C (static)
- Features:** halogens and silicones free

Related products

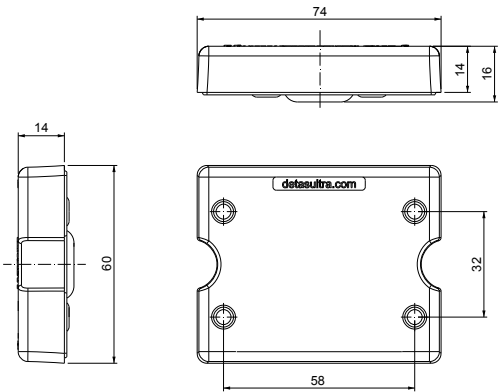
Hydraulic punch driver HY360

Double membrane



Model	Code	Cable nr. - Ø cables min/max [mm]	Dimensions [mm]		Pcs /pack
			Cut-out	Plate	
DES-PDM Q 13G	1732014613	8 - 2.8 / 6.5 4 - 4.6 / 10.2 1 - 14.5 / 22	46 x 46	74x60	10
DES-PDM Q 17G	1732014617	10 - 2.8 / 6.5 4 - 4.6 / 10.2 2 - 6.8 / 12 1 - 8.6 / 16.2			
DES-PDM Q 25G	1732014625	25 - 2.8 / 6.5			
DES-PDM Q 13B	1732015614	8 - 2.8 / 6.5 4 - 4.6 / 10.2 1 - 14.5 / 22	46 x 46	74x60	10
DES-PDM Q 17B	1732015618	10 - 2.8 / 6.5 4 - 4.6 / 10.2 2 - 6.8 / 12 1 - 8.6 / 16.2			
DES-PDM Q 25B	1732015626	25 - 2.8 / 6.5			

Dimensions [mm]

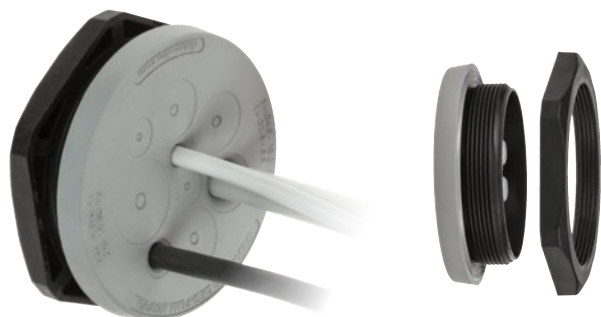




Round cable entry plates with internal frame and locknut

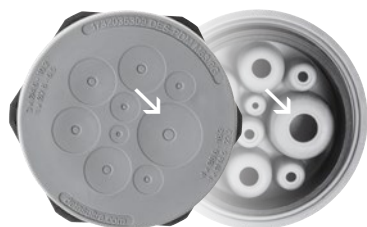


- For several number of non-terminated cables
- High retaining force thanks to the double membrane
- Cost efficient solution
- High IP grade (IP65-66)
- Metric sized



2

Double membrane



The round metric DES-PDM M is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance.

Technical data

Material: TPE

Flammability: self-extinguishing
acc. to UL94-V0

Temperature: -40°C... +105°C
(static)

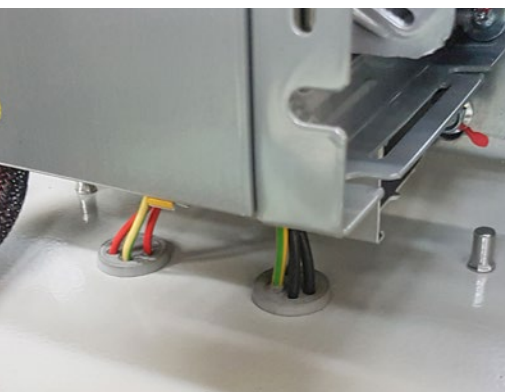
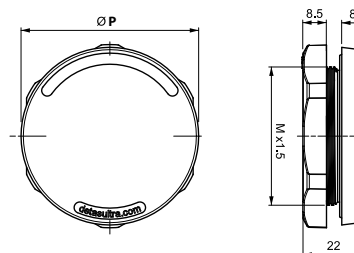
Features: halogens and silicones
free

Related products

Hydraulic punch driver HY360

GREY					
Model	Code	Cable nr. - Ø cables min/max [mm]	Thread x1.5	Dimensions Ø P [mm]	Pcs /pack
DES-PDM M32 4G	1732033204	3 - 2.6 / 6.5 1 - 5.5 / 12.5	M32	46	10
DES-PDM M32 4-2G	1732033242	4 - 3.5 / 8.8			
DES-PDM M32 7G	1732033207	7 - 2.6 / 6.5			
DES-PDM M40 8G	1732034008	4 - 2.6 / 6.5 4 - 4 / 10.2	M40	54	10
DES-PDM M50 8G	1732035008	5 - 4.6 / 10.2 3 - 6.8 / 12.5	M50	64	10
DES-PDM M50 10G	1732035010	7 - 2.8 / 6.5 2 - 4.6 / 10.2 1 - 14.5 / 22			
DES-PDM M50 12G	1732035012	4 - 2.8 / 6.5 8 - 4.6 / 10.2			
DES-PDM M50 19G	1732035019	19 - 2.8 / 6.5			
DES-PDM M63 9G	1732036309	1 - 2.6 / 6 3 - 4.6 / 10.2 4 - 8.6 / 16.2 1 - 10.9 / 20	M63	77	10
DES-PDM M63 13G	1732036313	4 - 2.8 / 6 4 - 4.6 / 10.2 5 - 9.5 / 16.2			
DES-PDM M63 14G	1732036314	14 - 5 / 10			
DES-PDM M63 35G	1732036335	35 - 2.6 / 5.5			

Dimensions [mm]





Round cable entry plates
with internal frame and locknut

- For several number of non-terminated cables
- High retaining force thanks to the double membrane
- Cost efficient solution
- High IP grade (IP65-66)
- Metric sized

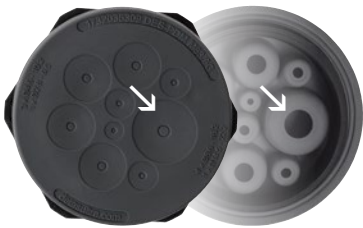


2

The round metric DES-PDM M is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance.

Double membrane



Technical data

Material: TPE

Flammability: self-extinguishing
acc. to UL94-V0

Temperature: -40°C... +105°C
(static)

Features: halogens and silicones
free

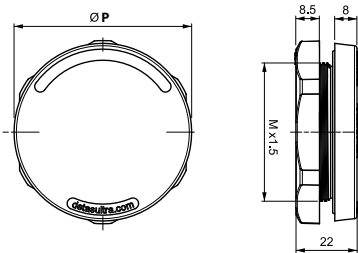
Related products

Hydraulic punch driver HY360



BLACK					
Model	Code	Cable nr. - Ø cables min/max [mm]	Thread x1.5	Dimensions Ø P [mm]	Pcs /pack
DES-PDM M32 4B	1732034205	3 - 2.6 / 6.5 1 - 5.5 / 12.5	M32	46	10
DES-PDM M32 4-2B	1732034252	4 - 3.5 / 8.8			
DES-PDM M32 7B	1732034208	7 - 2.6 / 6.5			
DES-PDM M40 8B	1732035009	4 - 2.6 / 6.5 4 - 4 / 10.2	M40	54	10
DES-PDM M50 8B	1732036009	5 - 4.6 / 10.2 3 - 6.8 / 12.5	M50	64	10
DES-PDM M50 10B	1732036011	7 - 2.8 / 6.5 2 - 4.6 / 10.2 1 - 14.5 / 22			
DES-PDM M50 12B	1732036012	4 - 2.8 / 6.5 8 - 4.6 / 10.2			
DES-PDM M50 19B	1732036020	19 - 2.8 / 6.5			
DES-PDM M63 9B	1732037310	1 - 2.6 / 6 3 - 4.6 / 10.2 4 - 8.6 / 16.2 1 - 10.9 / 20	M63	77	10
DES-PDM M63 13B	1732037314	4 - 2.8 / 6 4 - 4.6 / 10.2 5 - 9.5 / 16.2			
DES-PDM M63 14B	1732037315	14 - 5 / 10			
DES-PDM M63 35B	1732037336	35 - 2.6 / 5.5			

Dimensions [mm]





Cable entry plate - large frame

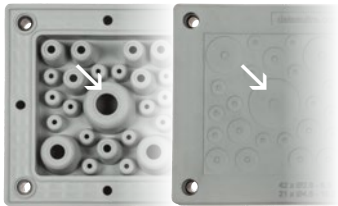
- For up to 72 non-terminated cables
- High retaining force thanks to the double membrane
- Cost efficient solution
- High IP grade (IP65-66)



Model	Code	Cable nr. - Ø cables min/max [mm]	Dimensions [mm]		Pcs /pack
			Cut-out	Plate	
DES-PDM KN 72G	1732040072	42 - 2.8 / 6.5 21 - 4.6 / 10.2 6 - 8.6 / 16.2 3 - 14.5 / 22	192 x 62	221 x 90	1
DES-PDM KN 72B	1732041073	42 - 2.8 / 6.5 21 - 4.6 / 10.2 6 - 8.6 / 16.2 3 - 14.5 / 22	192 x 62	221 x 90	1

2

Double membrane



The DES-PDM KN is an innovative alternative to standard cable glands on electrical, electronic and telecommunication cabinets and equipment.

The cable is pushed through the front membrane, whilst the second membrane increases the strain relief and liquid resistance.

Technical data

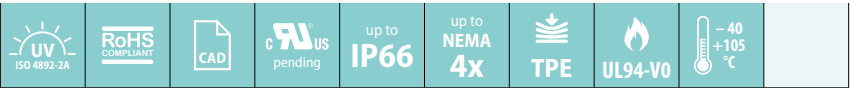
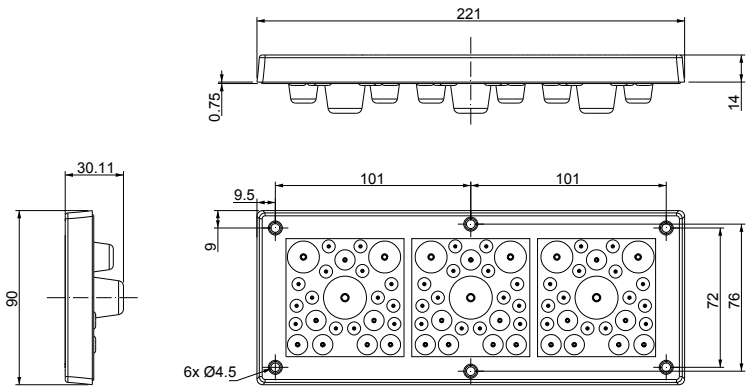
Material: TPE

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +105°C (static)

Features: halogens and silicones free

Dimensions [mm]





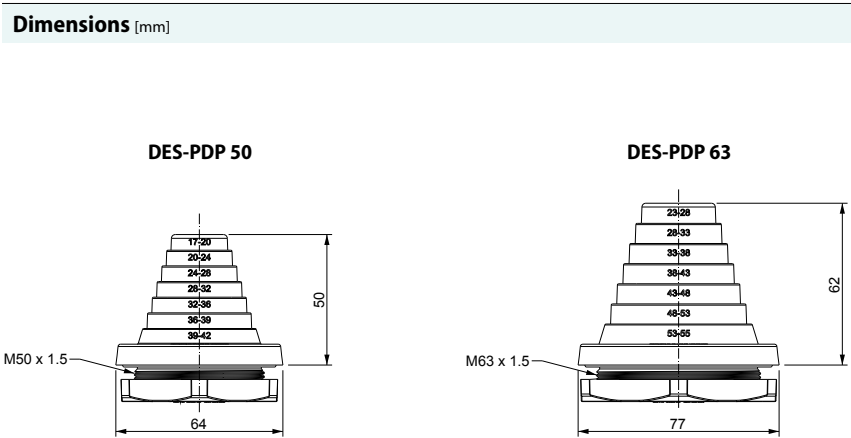
Model	Code	Cable nr. - Ø cables min/max [mm]	Dimensions [mm]		Pcs /pack
			Cut-out	Plate	
 DES-PDP 50G	1732050050	1 - 17 / 42	M50	50.5	10
 DES-PDP 63G	1732050063	1 - 23 / 55	M63	63.5	
 DES-PDP 50B	1732052050	1 - 17 / 42	M50	50.5	10
 DES-PDP 63B	1732052063	1 - 23 / 55	M63	63.5	

Round base, pyramid-shaped cable entry plate with locknut

- For diameters from 17 to 55 mm
- Reinforcing base plate
- Cost efficient solution
- UL94V0 for grey and black



2



The DES-PDP is available in M50 and M63 sizes enabling non-terminated cables 17 to 55mm in diameter to pass through the wall of the electrical cabinet.

The reinforcing base plate increases the stability where large cables are used.



Technical data

- Material:** TPE
- Flammability:** self-extinguishing acc. to UL94-V0
- Temperature:** -40°C... +105°C (static)
- Features:** halogens and silicones free

Related products

Hydraulic punch driver HY360



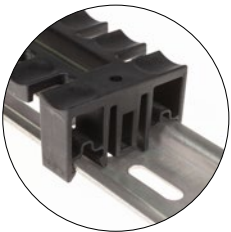
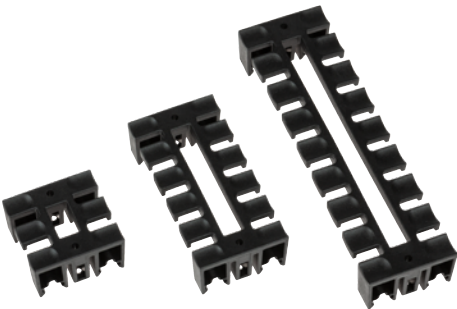
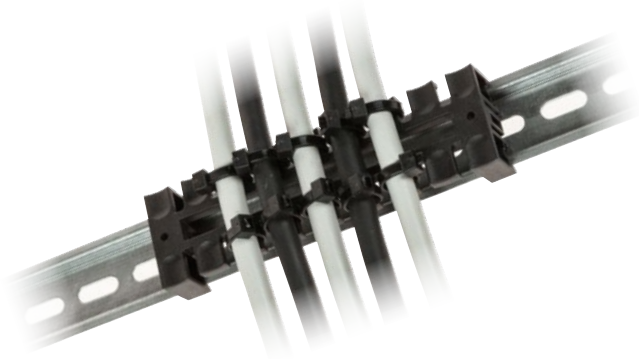


Group 3

Strain relief modules

Strain relief modules for DIN and Omega rails

- Strain relief according to EN 62444
- Easy to install
- Cost efficient solution
- UL94V0



The APD modules are used in electrical cabinets to organise the cables whilst providing strain relief according to EN 62444.

The cables can be fixed with standard plastic ties or reusable velcro ties.

Technical data

Material: Polyamide (PA)

Flammability: self-extinguishing acc. to UL94-V0

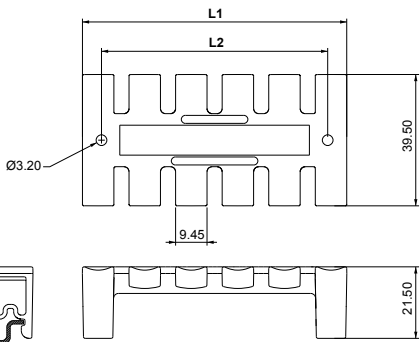
Temperature: -40°C... +140°C (static)

Features: halogens and silicones free

Related products

FV velcro cable ties

Dimensions [mm]



DIN guide



Strain relief modules for screw fixing

- Modules also available with aluminum or brass bushings
- Strain relief acc. to EN 62444
- Easy to install
- Cost efficient solution
- UL94V0



3

The AP modules are used in electrical switchboards and equipment keeping cables tidy whilst providing strain relief according to EN 62444.

The cables can be fixed with standard plastic ties or reusable velcro ties.

Spacers are available for multi-tier applications.

Technical data

Material: Polyamide (PA)

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +140°C (static)

Features: halogens and silicones free

Related products

DZ spacers

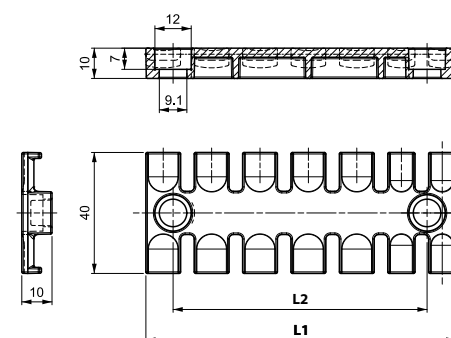
FV velcro cable ties

Modules without bushings

Model	Code	Dimensions [mm]		Teeth	Pcs /pack
		L1	L2		
AP 39	1733020003	38.5	19.5	3	10
AP 60	1733020004	59.5	43.5	4	
AP 70	1733020005	69.1	43.5	5	
AP 87	1733020006	86.5	68	6	
AP 103	1733020007	102.5	84	7	
AP 121	1733020008	121	102.5	8	
AP 140	1733020009	139.5	121	9	
AP 180	1733020010	180	157	12	

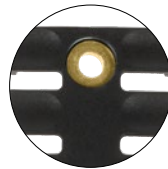
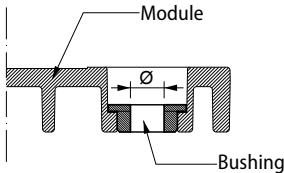
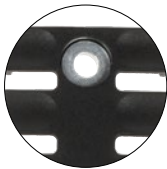


Dimensions [mm]



Modules with aluminum bushings						
Model	Code	Ø	Dimensions [mm]		Teeth	Pcs /pack
			L1	L2		
AP 39 BA4	1733021403	 M4	38.5	19.5	3	10
AP 60 BA4	1733021404		59.5	43.5	4	
AP 70 BA4	1733021405		69.1	43.5	5	
AP 87 BA4	1733021406		86.5	68	6	
AP 103 BA4	1733021407		102.5	84	7	
AP 121 BA4	1733021408		121	102.5	8	
AP 140 BA4	1733021409		139.5	121	9	
AP 180 BA4	1733021410		180	157	12	
AP 39 BA5	1733021503	 M5	38.5	19.5	3	10
AP 60 BA5	1733021504		59.5	43.5	4	
AP 70 BA5	1733021505		69.1	43.5	5	
AP 87 BA5	1733021506		86.5	68	6	
AP 103 BA5	1733021507		102.5	84	7	
AP 121 BA5	1733021508		121	102.5	8	
AP 140 BA5	1733021509		139.5	121	9	
AP 180 BA5	1733021510		180	157	12	
AP 39 BA6	1733021603	 M6	38.5	19.5	3	10
AP 60 BA6	1733021604		59.5	43.5	4	
AP 70 BA6	1733021605		69.1	43.5	5	
AP 87 BA6	1733021606		86.5	68	6	
AP 103 BA6	1733021607		102.5	84	7	
AP 121 BA6	1733021608		121	102.5	8	
AP 140 BA6	1733021609		139.5	121	9	
AP 180 BA6	1733021610		180	157	12	

Modules with brass bushings						
Model	Code	Ø	Dimensions [mm]		Teeth	Pcs /pack
			L1	L2		
AP 39 BR4	1733022403	 M4	38.5	19.5	3	10
AP 60 BR4	1733022404		59.5	43.5	4	
AP 70 BR4	1733022405		69.1	43.5	5	
AP 87 BR4	1733022406		86.5	68	6	
AP 103 BR4	1733022407		102.5	84	7	
AP 121 BR4	1733022408		121	102.5	8	
AP 140 BR4	1733022409		139.5	121	9	
AP 180 BR4	1733022410		180	157	12	
AP 39 BR5	1733022503	 M5	38.5	19.5	3	10
AP 60 BR5	1733022504		59.5	43.5	4	
AP 70 BR5	1733022505		69.1	43.5	5	
AP 87 BR5	1733022506		86.5	68	6	
AP 103 BR5	1733022507		102.5	84	7	
AP 121 BR5	1733022508		121	102.5	8	
AP 140 BR5	1733022509		139.5	121	9	
AP 180 BR5	1733022510		180	157	12	
AP 39 BR6	1733022603	 M6	38.5	19.5	3	10
AP 60 BR6	1733022604		59.5	43.5	4	
AP 70 BR6	1733022605		69.1	43.5	5	
AP 87 BR6	1733022606		86.5	68	6	
AP 103 BR6	1733022607		102.5	84	7	
AP 121 BR6	1733022608		121	102.5	8	
AP 140 BR6	1733022609		139.5	121	9	
AP 180 BR6	1733022610		180	157	12	



Strain relief modules - double comb for screw fixing

- Modules also available with aluminum or brass bushings
- Strain relief acc. to EN 62444
- Easy to install
- Cost efficient solution
- UL94V0



Aluminum bushing



Brass bushing

The AP-DP modules are used in electrical switchboards and equipment keeping cables of various sizes tidy whilst providing strain relief according to EN 62444.

The cables can be fixed with standard plastic ties or reusable Velcro ties.

Spacers are available for multi-tier applications.

Technical data

Material: Polyamide (PA)

Flammability: self-extinguishing acc. to UL94-V0

Temperature: -40°C... +140°C (static)

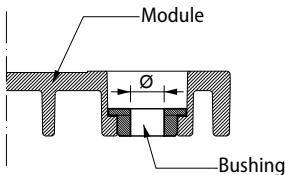
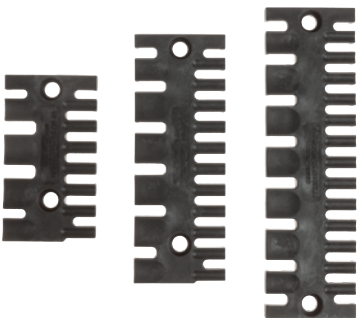
Features: halogens and silicones free

Related products

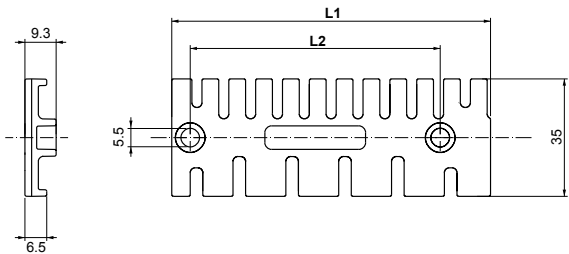
DZ spacers

FV velcro cable ties

Model	Code	Bushing Ø	Dimensions [mm]		Teeth	Pcs /pack
			L1	L2		
AP-DP 63	1733010047	-	63.4	42	4-7	10
AP-DP 95	1733010611	-	95	74.5	6-11	
AP-DP 119	1733010713	-	119	108	7-13	
AP-DP 63-BA4	1733011447	Aluminum  M4	63.4	42	4-7	10
AP-DP 95-BA4	1733011411		95	74.5	6-11	
AP-DP 119-BA4	1733011413		119	108	7-13	
AP-DP 63-BR4	1733012447	Brass  M4	63.4	42	4-7	10
AP-DP 95-BR4	1733012411		95	74.5	6-11	
AP-DP 119-BR4	1733012413		119	108	7-13	



Dimensions [mm]



 UV
ISO 4892-2A

 RoHS
COMPLIANT

 CAD

 PA

 UL94-V0

 -40
+140
°C

Model	Code	Suitable for	H [mm]	D1 [mm]	D2 [mm]	Pcs /pack
DZ 30	1733020011	AP-DP	30	7	5.2	10
DZ 32	1733020012	AP	32	12	6.2	10

Spacers

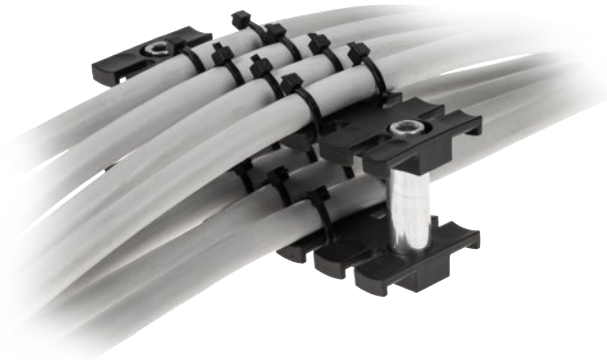
► Increase in cable bundle density



DZ 30

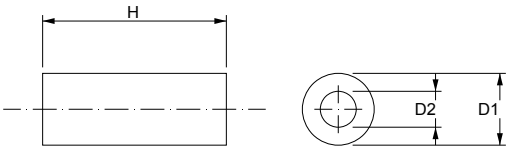


DZ 32



3

Dimensions [mm]



The spacers are used to build a multi-tier system in the case of a large number of cables.

Technical data

Material: Aluminum

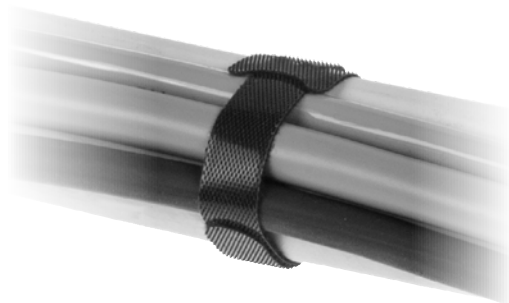
Related products

AP strain relief modules
AP-DP double-comb strain relief modules

						AI	RoHS COMPLIANT	CAD
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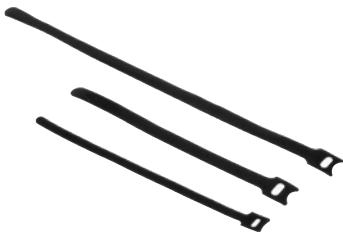
Velcro cable ties

- ▶ The Velcro cable ties can be reused
- ▶ Adaptable to the shape of the application
- ▶ Particularly effective in the event of vibration



Model	Code	Dimensions [mm]		Pcs /pack
		L	W	
FV1	1733020020	200	10	100
FV2	1733020025	200	13	100
FV3	1733020030	300	17	100

3



Velcro cable ties allow a large number of cables to be bundled together. They prevent damage in the event of vibration and can be reused many times.

The ready-to-use velcro straps are available in 3 different sizes.

Technical data

Material: Polyamide (PA)

Flammability: self-extinguishing
acc. to UL94-V2

Temperature: -30°C... + 80°C

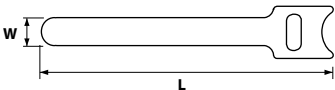
Related products

AP strain relief modules

AP-DP double-comb strain relief
modules

APD strain relief modules for DIN rails

Dimensions [mm]

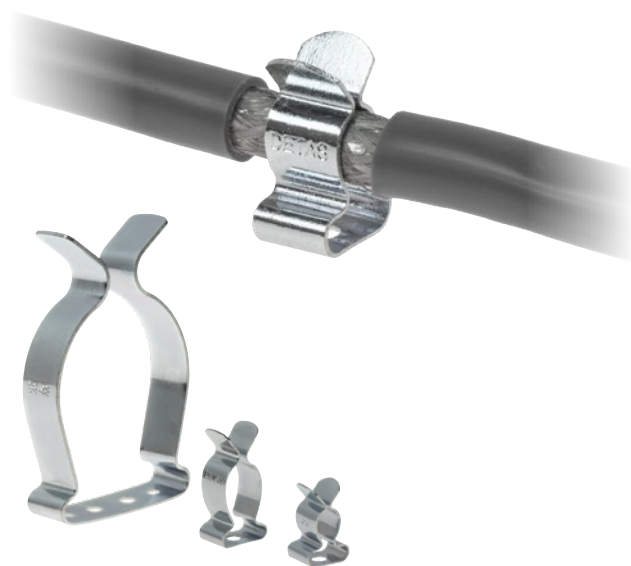




Group 4
EMC shielding

Shield clamps without foot

- Suitable for a wide range of cables from 1.5 to 48 mm
- Ideal adherence to cable shielding
- Possibility to mount the springs easily, no need to use tools
- Constant pressure of the spring on the cable sheath without having to run tests and checks
- Absence of sensitivity to vibrations without maintenance
- Ideal shape and dimensions make a high cable density easily manageable



4

MSS shield clamps enable the cable shield to be grounded easily and effectively. They secure the anti-tear function on the cable by fixing it with a tie.

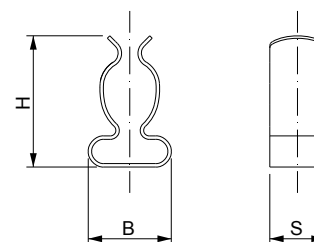
MSS shield clamps can be fixed with screws or rivets.

Technical data

Material: spring steel, zinc plated

Model	Code	Clamping range [mm]	Dimensions [mm]			Pcs /pack
			B	H	S	
MSS 1.5-3	1734010010	1.5 - 3	11	12	8	50
MSS 3-6	1734010020	3 - 6	11	14	8	50
MSS 6-8	1734010030	6 - 8	11	17	8	50
MSS 8-11	1734010040	8 - 11	12	19	8	50
MSS 11-17	1734010050	11 - 17	13,5	25	8	50
MSS 17-22	1734010060	17 - 22	22	34	8	50
MSS 22-30	1734010070	22 - 30	22	40	12	50
MSS 30-38	1734010080	30 - 38	40	54	12	50
MSS 38-48	1734010090	38 - 48	40	64	12	50

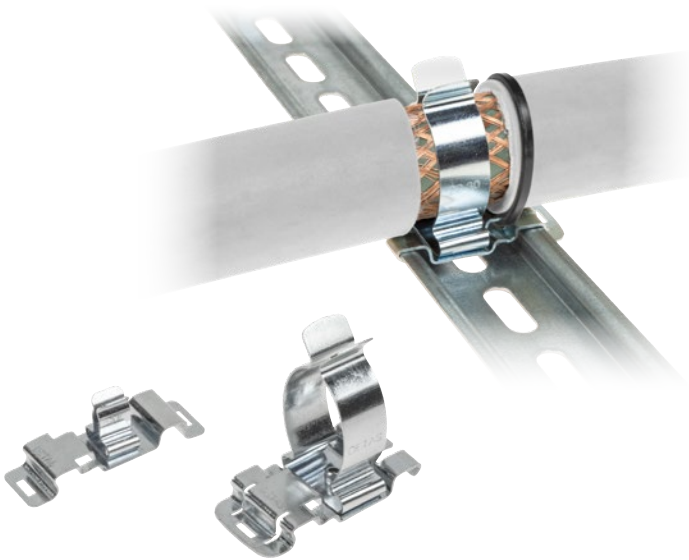
Dimensions [mm]



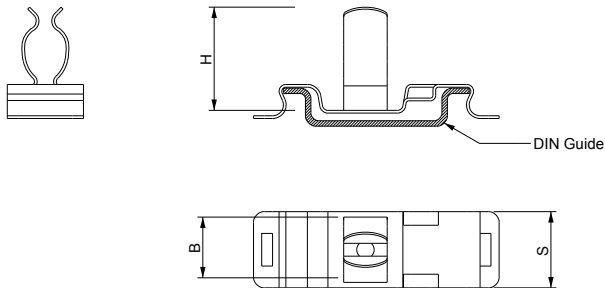
Model	Code	Clamping range [mm]	Dimensions [mm]			Pcs /pack
			B	H	S	
MSD 1.5-3	1734020010	1.5 - 3	11	12	14	50
MSD 3-6	1734020020	3 - 6	11	14	14	50
MSD 6-8	1734020030	6 - 8	11	17	14	50
MSD 8-11	1734020040	8 - 11	12	19	14	50
MSD 11-17	1734020050	11 - 17	13,5	25	14	50
MSD 17-22	1734020060	17 - 22	22	34	14	50
MSD 22-30	1734020070	22 - 30	22	40	14	50
MSD 30-37	1734020080	30 - 37	40	54	22	50
MSD 38-48	1734020090	38 - 48	40	64	22	50

Shield clamps for DIN and Omega rails

- Suitable for a wide range of cables from 1.5 to 48 mm
- Snap-in assembly, no need to use tools
- Available with a coupling base in two widths: 14 and 22 mm
- Absence of sensitivity to vibrations without maintenance
- Possibility of obtaining shield grounding and anti-tear functions with a single device
- Ideal adherence to cable shielding
- Constant pressure of the spring on the cable sheath without having to run tests and checks



Dimensions [mm]



The MSD shield clamps enable the cable shield to be grounded easily and effectively. They secure the anti-tear function on the cable by fixing it with a tie.

The anti-tear function complies with CEI EN 62444 standards.

The MSD shield clamps can be used on 35 mm DIN/Omega rails.

Technical data

Material: spring steel, zinc plated



Shield clamps for 10 x 3 mm bar

- Suitable for a range of cables from 1.5 to 17 mm
- Ideal adherence to cable shielding
- Easy assembly, no need to use tools
- Constant pressure of the spring on the cable sheath without having to run tests and checks
- Absence of sensitivity to vibrations without maintenance
- Ideal shape and dimensions make a high cable density easily manageable



Model	Code	Clamping range [mm]	Dimensions [mm]			Pcs /pack
			B	H	S	
MSB 1.5-3	1734040010	1.5 - 3	11	12	8	50
MSB 3-6	1734040020	3 - 6	11	14	8	
MSB 6-8	1734040030	6 - 8	11	17	8	
MSB 8-11	1734040040	8 - 11	12	19	8	
MSB 11-17	1734040050	11 - 17	13,5	25	8	



Dimensions [mm]

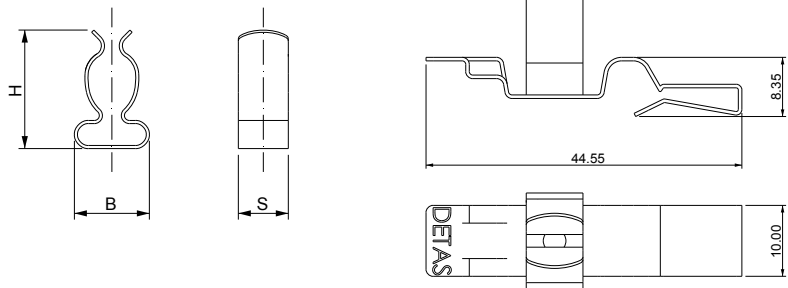
MSB shield clamps enable the cable shield to be grounded easily and effectively. They secure the anti-tear function on the cable by fixing it with a tie.

Snap-in assembly on the 10 × 3 mm bar.

The anti-tear function complies with CEI EN 62444 standards.

Technical data

Material: spring steel, zinc plated



RoHS
COMPLIANT

CAD

STEEL

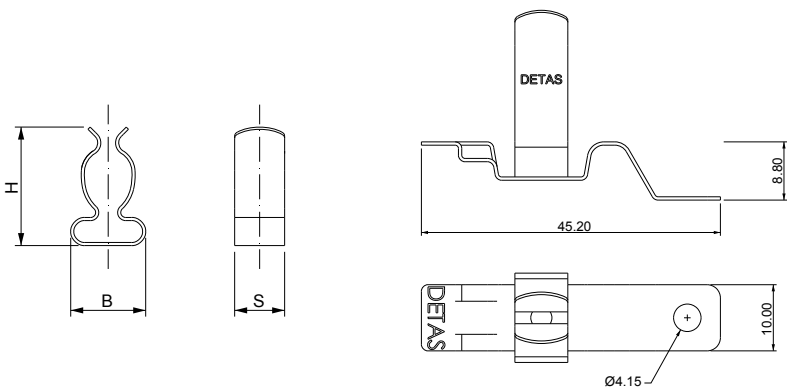
Model	Code	Clamping range [mm]	Dimensions [mm]			Pcs /pack
			B	H	S	
MSA 1.5-3	1734030010	1.5 - 3	11	12	8	50
MSA 3-6	1734030020	3 - 6	11	14	8	
MSA 6-8	1734030030	6 - 8	11	17	8	
MSA 8-11	1734030040	8 - 11	12	19	8	
MSA 11-17	1734030050	11 - 17	13,5	25	8	

Shield clamps with screw fixing

- Suitable for a range of cables from 1.5 to 17 mm
- Ideal adherence to cable shielding
- Easy assembly, no need to use tools
- Constant pressure of the spring on the cable sheath without having to run tests and checks
- Absence of sensitivity to vibrations without maintenance
- Ideal shape and dimensions make a high cable density easily manageable



Dimensions [mm]



MSA shield clamps enable the cable shield to be grounded easily and effectively. They secure the anti-tear function on the cable by fixing it with a tie.

The shield clamp can be fixed with a M4 screw.

The anti-tear function complies with CEI EN 62444 standards.

Technical data

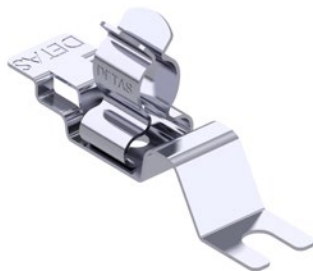
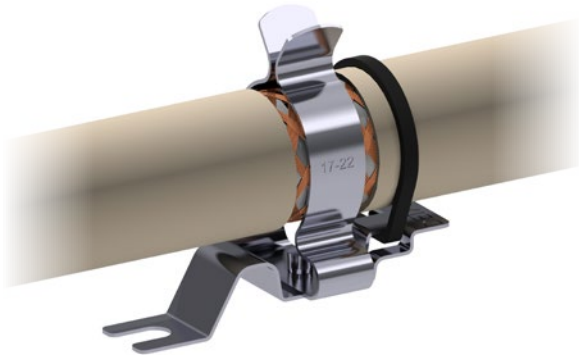
Material: spring steel, zinc plated



Shield clamps with screw fixing

- Suitable for a range of cables from 1.5 to 17 mm
- Ideal adherence to cable shielding
- Easy assembly, no need to use tools
- Constant pressure of the spring on the cable sheath without having to run tests and checks
- Absence of sensitivity to vibrations without maintenance
- Ideal shape and dimensions make a high cable density easily manageable

Model	Code	Clamping range [mm]	Dimensions [mm]			Pcs /pack
			B	H	S	
MSE 1.5-3	1734050010	1.5 - 3	11	12	8	50
MSE 3-6	1734050020	3 - 6	11	14	8	
MSE 6-8	1734050030	6 - 8	11	17	8	
MSE 8-11	1734050040	8 - 11	12	19	8	
MSE 11-17	1734050050	11 - 17	13,5	25	8	



4

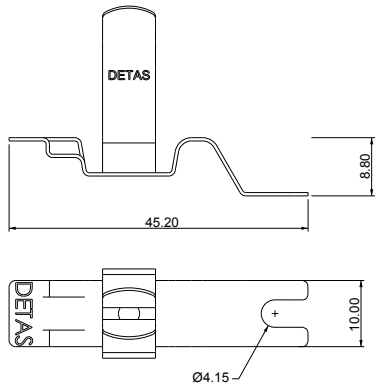
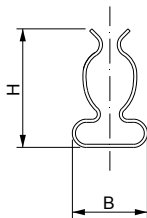
MSA shield clamps enable the cable shield to be grounded easily and effectively. They secure the anti-tear function on the cable by fixing it with a tie.

The shield clamp can be fixed with a M4 screw.

The anti-tear function complies with CEI EN 62444 standards.

Technical data

Material: spring steel, zinc plated



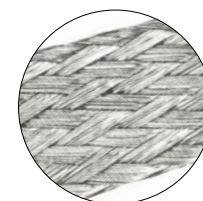
RoHS COMPLIANT	CAD	STEEL							
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							RoHS COMPLIANT	CAD	Cu +Sn
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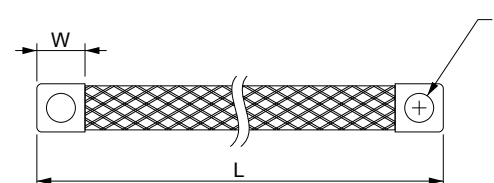
- ▶ Sections from 6 to 25 mm² are available
- ▶ Cheap price
- ▶ High conductivity



Pure Cu-ETP - ASTM C11000 copper enables an excellent ground connection.



Material: tinned copper





Group 5

Cable protection conduits

Model	Code	Tube [mm]		Clip FW [mm]	Pcs /pack
		Ø external	Ø internal		
FL 10	1735010010	10	6	10	multiple of 5 m
FL 14	1735010014	14	9	13	
FL 16	1735010016	16	11	15.8	
FL 20	1735010020	20	13	18.5	
FL 22	1735010022	22	16	21.2	
FL 25	1735010025	25	18	25	
FL 32	1735010032	32	23	28.5	
FL 35	1735010035	35	26	34.5	
FL 42	1735010042	42	30	42.5	
FL 54	1735010054	54	42	54.5	
FL 80	1735010080	80	66	--	



Splittable corrugated tubes

- Wide range of diameters (from 10 to 80 mm) available
- Easy insertion of the cables
- Easy opening in case of maintenance



FL splittable corrugated tubes are suitable for the passage of preassembled cables.

The double tube enables a high protection throughout the length of the cable and make them ideal for the use in extreme conditions.

Easy fixing with clips.

Technical data

Material: Polyamide (PA)

Flammability: UL94-V0

Temperature: -40°C... +110°C

Features: halogens and silicones free

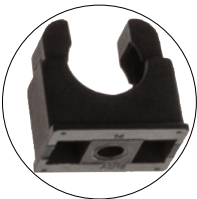
Related products

FW Clips for corrugated tubes



Clips for corrugated tubes

- Easy assembly
- Easy fixing of the tube, no need to use tools



FW clips are suitable for the fixing of corrugated tubes.

The cover, by snap-in fixing, makes the tube stabler also under mechanical stresses.

Technical data

Material: Polyamide PA

Flammability: UL94-V0

Temperature: -40°C... +110°C

Features: halogens and silicones free

Related products

FL Splittable corrugated tubes

Model	Code	Tube compatibility	Pcs /pack
FW 10	1735030010	FL 10	50
FW 13	1735030013	FL 14	
FW 15	1735030015	FL 16	
FW 18	1735030018	FL 20	
FW 21	1735030021	FL 22	
FW 25	1735030025	FL 25	
FW 28	1735030028	FL 32	
FW 34	1735030034	FL 35	
FW 42	1735030042	FL 42	
FW 54	1735030054	FL 54	





Group 6

Accessories for switchboard

Hydraulic punch driver for round and rectangular punctures

- Manual punch driver with rotating 360° head
- Thanks to her low weight, the punch driver can be used by only one person
- The punch driver produces a hydraulic power of 120 kN and can be used for stainless steel walls with a maximum thickness of 3.5 mm
- All the available punches are compatible with our products



Technical data

Material: Aluminum alloy
Hydraulic power: 120 kN
Weight: 2.5 kg

Model	Code	Dimensions [mm]	Pcs /pack
Punch driver HY360	1735010100		1
Rectangular punch for DES 24	1736010024	108 x 39	1
Rectangular punch for DES 16	1736010016	86 x 39	
Rectangular punch for DES 10	1736010010	63 x 39	
Rectangular punch for DES Q	1736010008	40 x 39	
Rectangular punch for DES L2	1736010002	40 x 22	
Rectangular punch for DES L3	1736010003	63 x 22	
Rectangular punch for DES L4	1736010004	86 x 22	
Rectangular punch for DES L5	1736010005	108 x 22	
Rectangular punch for DES-PM 24 e DES-PDM 24	1736010124	112 x 36	
Rectangular punch for DES-PDM Q	1736010108	46 x 46	
Round punch M25	1736010025	Ø 25.5	1
Round punch M32	1736010032	Ø 32.5	
Round punch M40	1736010040	Ø 40.5	
Round punch M50	1736010050	Ø 50.5	
Round punch M63	1736010063	Ø 63.5	

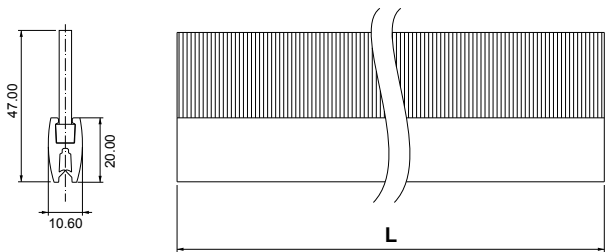
Model	Code	Length [mm]	Pcs /pack
SQZ 600	1736030006	600	1
SQZ 800	1736030008	800	
SQZ 1000	1736030010	1000	
SQZ 1200	1736030012	1200	

Brushes for Rittal cabinets

- ▶ Snap-in assembly
- ▶ Compatible with Rittal cabinet
- ▶ The brushes allow the passage of a high number of cables



Dimensions [mm]



The SQZ brushes are compatible with the main models of Rittal cabinets.

Cables can come out throughout the length of the bottom panel.

Easy snap-in assembly.

Technical data

Material: Polyamide (PA)

Flammability: UL94-V0

Temperature: -40°C... +110°C

Features: halogens and silicones free





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